

ENTRANCE EXAMINATION FOR ADMISSION, MAY 2010. Ph.D. (COMPUTER SCIENCE AND ENGINEERING) COURSE CODE: 106

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Register Number :	
	Signature of the Invigilator
	(with date)

COURSE CODE: 106

Time: 2 Hours Max: 400 Marks

Instructions to Candidates:

- 1. Write your Register Number within the box provided on the top of this page and fill in the page 1 of the answer sheet using pen.
- 2. Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- 3. Read each question carefully and shade the relevant answer (A) or (B) or or (D) or (E) in the relevant box of the ANSWER SHEET using HB pencil.
- 4. Avoid blind guessing. A wrong answer will fetch you −1 mark and the correct answer will fetch 4 marks.
- Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- 6. Do not open the question paper until the start signal is given.
- 7. Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- 8. On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

1.	Fuz	zball is a		
	(A)	Mainframe computer ·	(B)	Mini computer
	(C)	Micro computer	(D)	All of the above
	(E)	None of the above		
2.	Whi	ich one of the following is a first p	oublic data 1	network?
	(A)	X.25	(B)	Frame Relay
	(C)	ATM	(D)	All of the above
	(E)	None of the above		
3.		the circular array version of the e for their worst-case behavior?	Queue clas	s, which operations require constant
	(A)	GetFront		
	(B)	Insert when the capacity has n	ot yet been i	reached
	(C)	IsEmpty		
	(D)	All of these operations require	constant tin	ne
	(E)	None of the above		
4.	any		L and D	s permitted to be a letter followed by denote the sets of letters and digital defines an identifier?
	(A)	(LUD)+	(B)	L(LUD)*
	(C)	L.D*	(D)	All of the above
	(E)	None of the above		
5.		ich of the following is essential n efficiently	for converti	ing an infix expression to the postfix
	(A)	An operand Queue		
	(B)	An operand stack		
	(C)	An operand stack and an opera	itor stack	
	(D)	An operator stack		
	(E)	None of the above		

6.		ne a context free language $L \le \{0;1\}$ init(L) = $\{u/uv \in L \text{ for some } v \text{ in } \{0,1\}\}$. Let Ly is non empty and has an equal number of 0's and 1's}	
	(A)	The set of all binary strings with unequal number of 0's and 1's	
	(B)	The set of all binary strings including the null string	
	(C)	The set of all binary strings with exactly one more 0's than the number of 1's of the more 1 than the number of 0's	r
	(D)	All of the above	
	(E)	None of the above	
7.	Data	a origin authentication or message authentication techniques provide assurance	
	(A)	Of the identity of the party which originated the message.	
	(B)	Of the validity of the data	
	(C)	Of data integrity	
	(D)	All of the above	
	(E)	None of the above	
8.		real computer, what will happen if you make a recursive call without making the	е
	(A)	The program keeps running until you press Ctrl-C	
	(B)	The results are non-deterministic.	
	(C)	The run-time stack eventually overflows, halting the program.	
	(D)	All of the above	
	(E)	None of the above	
9.	Wha	at is the granularity of buffering in file-level caching?	
	(A)	A disk block (B) Several disk blocks	
	(C)	A file (D) All of the above	
	(E)	None of the above	
		3 10	6

	(D) All of the above
	(E) None of the above
11.	What is the purpose of the Device Status Table for interrupt-driven I/O?
	(A) To mark the status of each device at boot time.
	(B) To save the status of a pending I/O operation.
	(C) To make the current status of each device available to the entire kernel.
	(D) All of the above
	(E) None of the above.
12.	The Fountain model differs from the Waterfall model in that
	(A) The various phases of the development process happen in the reverse order in the two models
	(B) The Fountain model allows for the development process to "fall back" to earlier phases when necessary
	(C) The Fountain model always splits the development effort at each stage: some effort moves on to the next phase, some is directed back to review of earlier stages
	(D) All of the above
	(E) None of the above
13.	Which one of the following activities is not an objective of phase 4 of the SDLC, systems development?
	(A) Acquire hardware (B) Test the system
	(C) Address the make-or-buy decision (D) All of the above
	(E) None of the above
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10. Direct memory access is

Used to increase a systems performance

Used only in devices that performs direct I/O

More secure than indirect I/O

(A)

(B)

(C)

14.	An i	An interrupt is the same as a trap in that they both							
	(A)	Block the process currently using th	ne CPU						
	(B)	(B) Cause the processor to switch to supervisor mode and branch to a handler							
	(C)	(C) Indicate the completion of an I/O operation							
	(D)	All of the above							
	(E)	None of the above							
15.		allows the programmer to	ignore p	portions of the search tree that make					
	no d	lifference to the final choice.							
	(A)	Pruning	(B)	Game tree					
	(C)	The minimax algorithm	(D)	Cutting off search					
	(E)	None of the above							
16.		set of entailed sentences that increase is called	<i>ise</i> as ir	nformation is added to the knowledge					
			(7)						
	(A)	Resolution	(B)	Monotonicity					
	(C)	Nonmonotonicity	(D)	Inference					
	(E)	None of the above							
17.		specifies a mapping from sy	ymbols t	to the model.					
	(A)	Constant symbols	(B)	Predicate Symbols					
	(C)	Perception	(D)	Interpretation					
	(E)	None of the above							
18.	The	State-space search which operates in	n the for	rward direction is called					
	(A)	Mutex	(B)	Mutual Exclusion					
	(C)	Regression	(D)	Progression					
	(E)	None of the above							

19.		we write a program in a programming uire to use the DB, then the SQL envi.		
	(A)	PL	(B)	Embedded
	(C)	Dynamic	(D)	All of the above
	(E)	None of the above		
20.		algorithm computes t		
	(A)	Alpha-beta search	(B)	DFS
	(C)	BFS	(D)	Heuristic
	(E)	None of the above		
21.		helps decide in advance wheessor nodes.	nich m	noves will cause a beta cutoff in the
	(A)	Morale pruning	(B)	Futility pruning
	(C)	Alph-Beta pruning	(D)	Null move
	(E)	None of the above		
22.		Minimum time delay required between	en the	initiations of two successive memory
	(A)	Memory cycle time	(B)	Memory access time
	(C)	Transmission time	(D)	Waiting time
	(E)	None of the above		
23.	On	receiving an interrupt from an I/O devi	ice, the	e CPU
	(A)	Halts for a predetermined time		
	(B)	Hands over control of address bus an	d data	a bus to the interrupting device
	(C)	Branches off to the interrupt service	routin	e immediately
	(D)	Branches off to the interrupt service instruction	ce rou	tine after completion of the current
	(E)	None of the above		

24.	De I	Morgan's first theorem says that a NC	R gate	is equivalent to a bubbled gate(s).			
	(A)	AND	(B)	XAND			
	(C)	XOR	(D)	All of the above			
	(E)	None of the above					
25.		nicroprocessor has memory locations es 1 byte. How many bytes can the me		0000 to 3FFF. Each memory location store (Express in Kilobytes)?			
	(A)	4095, 4K	(B)	16384, 16K			
	(C)	32740,32K	(D)	46040,46K			
	(E)	None of the above					
26.	Part	-Whole hierarchy relationship among	g the ob	jects is called			
	(A)	Aggregation	(B)	Inheritance			
	(C)	Association	(D)	All of the above			
	(E)	None of the above					
27.	YaC	C builds up					
	(A)	SLR parsing table	(B)	Canonical LR parsing table			
	(C)	LALR parsing table	(D)	All of the above			
	(E)	None of the above					
28.	The	'k' in LR(k) cannot be					
	(A)	0	(B)	1			
	(C)	2	(D)	3			
	(E)	None of the above					
29.	Wha	at are the three techniques that are in	nporta	nt for loop optimization?			
	(A)) Code motion, induction-variable elimination, reduction in strength					
	(B)	Code motion, induction, reduction in	n stren	gth			
	(C)	Dead code, constant-folding, reducti	ion in s	trength			
	(D)	All of the above					
	(E)	None of the above					

30.	Cons	sider the grammar shown below and id	entify	its type.
	$S \rightarrow$	CC		
	$C \rightarrow$	cC d		
	(A)	LL(1)	(B)	SLR (1) but not LL (1)
	(C)	LR (1) but not LALR (1)	(D)	All of the above
	(E)	None of the above		
31.	TP r	monitors first became popular in the 19	70's o	on
	(A)	Mainframes	(B)	Desktops
	(C)	Notebooks	(D)	Palm tops
	(E)	None of the above		
32.	The	most basic type of middle layer is		
	(A)	DBMS server	(B)	Application server
	(C)	Messaging server	(D)	Transaction monitor
	(E)	None of the above		
33.	,	is not well suited for applicat	ions i	nvolving distributed objects or object-
	orie	nted programming.		
	(A)	Object request broker	(B)	Message oriented middleware
	(C)	RPC	(D)	None of the above
	(E)	All of the above		
34.		is a software that resides in	both	portions of client/server architecture
	and	typically supports asynchronous calls		
	(A)	Object request broker	(B)	Message oriented middleware
	(C)	Java	(D)	All of the above
	(E)	None of the above		

35.	Ben	ents of OOD are						
	(A)	Less analysis effort						
	(B)	Simplified mapping to the pr	oblem domain					
	(C)	(C) Less complexity in system design						
	(D)	All of the above						
	(E)	None of the above						
36.	Whi	ich of the following is false with	n multilevel in	dex?				
	(A)	Requires less number of I/O	peration comp	pared to binary search				
	(B)	Requires fewer I/O operation	S					
	(C)	Requires less storage compar	red to a single	large index				
	(D)	All of the above						
	(E)	None of the above						
37.	para	anthesis and outputs true or	false based of t (())) does r	on of which is either an open or close on whether they match or not. For not. Which data structure is most				
	(A)	AVL tree	(B)	Stack				
	(C)	Queue	(D)	All of the above				
	(E)	None of the above						
38.	Whi	ich of the following statements	about HTML	help files is/are true?				
	(A)	They are created using rich t	ext format file	s				
	(B)	They have an .HTM extension	n					
	(C)	They have a .CHM extension						
	(D)	All of the above						
	(E)	None of the above						
39.		R1 and R2 to be a lossless deendency should be present in F		f R, which of the following functional				
	(A)	R1 ∩ R2 ->R1	(B)	R1 ∪ R2->R1				
	(C)	R1 ∩ R2->R	(D)	All of the above				
	(E)	None of the above						

40.		ces whose search key specifie are called	s an order diffe	erent from the sequential order of th
	(A)	Secondary indices	(B)	Inverted indices
	(C)	Distributed indices	(D)	All of the above
	(E)	None of the above		
41.		at is the output of the recursive int n>=1?	e algorithm giv	en below where A is an integer arra
		Rec(A,n)		
		If n==1, then, return	n A[0]	
		Else return Rec	(A,n-1)+A[n-1]	
	(A)	Length of array	(B)	Value of last element
	(C)	Value of first element	(D)	All of the above
	(E)	None of the above		
42.	The	operation which combines a	Cartesian produ	act and selection operation is called
	(A)	Division	(B)	Intersection
	(C)	Union	(D)	All of the above
	(E)	None of the above		
43.	A de	ense undirected graph is a gra	ph in which E	=
	(A)	O(v2)	(B)	O(v)
	(C)	O(2v)	(D)	All of the above
	(E)	None of the above		
44.	In a		s, the cost of re	emoving the minimum element in th
	(A)	O(N2)	(B)	O(Log N)
	(C)	O(N Log N)	(D)	All of the above
	(E)	None of the above		
45.		ou had to sort a list of 1000 ing algorithm would be the m		ng in value from 0 to 999999, whice choice?
	(A)	Radix sort	(B)	Quick sort
	(C)	Heap Sort	(D)	All of the above
	(E)	None of the above		

46.	What is the recurrence relation that best describes the worst case running time of Merge sort for an array of size n?							
	(A)	T(n) = T(n/2) + 1	(B)	T(n) = 2T(n/2) + 1				
	(C)	T(n) = 2T(n/2) + n	(D)	All of the above				
	(E)	None of the above						
47.	Wha	at is the running time of the following	ng recurre	ence relation?				
	T((n) = T(1), n=1,						
		T(n/2) +c, n >1						
	(A)	O (n log n)	(B)	O(log n)				
	(C)	O(n ²)	(D)	All of the above				
	(E)	None of the above						
48.	The	number of different binary trees wi	ith n node	es is given by the formula				
	(A)	1/(n+1) 2n C n	(B)	1/(n) 2n C n				
	(C)	1/(n+1) n C n	(D)	All of the above				
	(E)	None of the above						
49.		ange the following sorting algorithm plexity: Pigeon Hole, Merge sort, 6		ending order of their worst case time t, Selection sort, Insertion sort.				
	(A)	1, 2, 3, 4, 5	(B)	2, 3,1,5,4				
	(C)	3, 2,1,4,5	(D)	All of the above				
	(E)	None of the above						
50.	Wha	at is the output of the following recu	ırsive fun	ction if ack(3,2) is called?				
	Ack (int m, int n)							
	{							
		if (m=0), return n+1,						
		elseif (m>0 && n==0), return ack(m-1, 1);						
		else return (ack(m-1), ack(m,n-1)));					
	}							
	(A)	13	(B)	9				
	(C)	29	(D)	All of the above				
	(E)	None of the above						

51.	Whi	ch algorithm among the following w	ill alway	s return the correct result?
	(A)	Monte Carlo	(B)	Las Vegas
	(C)	Genetic	(D)	All of the above
	(E)	None of the above		
52.	Wha	at is the speciality of AVL tree?		
	(A)	It is a height balanced tree.		
	(B)	Lookup, insertion and deletion take	xes o(log	n) time
	(C)	It is a self balancing binary search	tree.	
	(D)	All of the above		
	(E)	None of the above		
53.	Wha	at is the insertion and lookup time in	red-bla	ck trees?
	(A)	O(log n), O(n)	(B)	O(n),O(logn)
	(C)	O(log n), O (log n)	(D)	All of the above
	(E)	None of the above		
54.	Trig	gers can be written for		
	(A)	Insert, delete, update	(B)	Create, alter, drop
	(C)	Login, logout	(D)	All of the above
	(E)	None of the above		
55.	An (Oracle PL/SQL block is always		
	(A)	Interpreted	(B)	Compiled
	(C)	Interpreted and then compiled	(D)	All of the above
	(E)	None of the above		
56.	Syst	tem event triggers are always		
	(A)	Row level	(B)	Table level
	(C)	Schema level	(D)	All of the above
	(E)	None of the above		

57.	Cycl	omatic complexity gives a quantitative	meas	ure of					
	(A)	(A) Complexity of the loops in a program							
	(B)	B) Logical complexity of the branches in a program							
	(C)	Logical complexity of a program							
	(D)	(D) All of the above							
	(E)	None of the above							
58.	The stored subprogram(s) available in Oracle is/are								
	(A)	Procedures	(B)	Functions					
	(C)	Packages	(D)	All of the above					
	(E)	None of the above							
59.	If R=(A,B,C,G,H,I) is a relation and F=(A->B, A->C, G->H) is the set of functional dependencies, then AG+ is given by								
	(A)	AGHB	(B)	ABCGHI					
	(C)	ABCGH	(D)	All of the above					
	(E)	None of the above							
60.	Partial dependency in a relation occurs due to the presence of								
	(A)	Composite keys	(B)	Foreign keys					
	(C)	Candidate keys	(D)	All of the above					
	(E)	None of the above							
61.		n a relation R=(name, age, id, address n as per pseudo transitivity rule,) and	F=(name->age; id, age-> address),					
	(A)	Name, id-> address	(B)	Name, address->id					
	(C)	Name, id->age	(D)	All of the above					
	(E)	None of the above							
62.	Which of the following statement is false about hash index?								
	(A)	(A) Provides direct access to data.							
	(B)	Used as a secondary index structure							
	(C)	Not suited for growing databases							
	(D)	All of the above							
	(E)	None of the above							

63.	The	task sets in a spiral model depends on	the				
	(A)	Size of the project	(B)	Characteristics of the project			
	(C)	Criticality of the project	(D)	All of the above			
	(E)	None of the above					
64.	A relational database which is in 3NF may still have undesirable data redundancy because there may exist						
	(A)	Non-trivial functional dependencies i	nvolvi	ing prime attributes on the right side			
	(B) Non-trivial functional dependencies involving prime attributes only on the left side						
	(C)	Non-trivial functional dependencies attributes	invo	olving attributes other than prime			
	(D)	All of the above					
	(E)	None of the above	8.	HE (10)			
65.		BC forms a superkey of relation R1 and it is called	d if A	B can uniquely identify a tuple in R1,			
	(A)	Primary key	(B)	Super key			
	(C)	Candidate Key	(D)	All of the above			
	(E)	None of the above					
66.	.Net	can be used to develop					
	(A)	Console applications	(B)	Web applications			
	(C)	Desktop applications	(D)	All of the above			
	(E)	None of the above					
67.	Hashing technique that allows the hash function to be modified according to the growth or shrinkage of database is called						
	(A)	Auto hashing	(B)	Dynamic hashing			
	(C)	Variable hashing	(D)	All of the above			
	(E)	None of the above					

68.		ces whose search key speare called	ecifies an order diff	ferent from the sequential order of the			
	(A)	Secondary indices	(B)	Inverted indices			
	(C)	Distributed indices	(D)	All of the above			
	(E)	None of the above					
69.	The State-space search which operates in the backward direction is called						
	(A)	Mutex	(B)	Mutual Exclusion			
	(C)	Regression	(D)	Progression			
	(E)	None of the above					
70.	-	algorithm schee	dules actions in a gr	reedy fashion.			
	(A)	Heuristic	(B)	DFS			
	(C)	BFS	(D)	Minimum slack			
	(E)	None of the above					
71.	detects violations of the preconditions for successful completion of the plan.						
	(A)	Hierarchical task netwo	ork (B)	Execution monitoring			
	(C)	Joint Intention	(D)	All of the above			
	(E)	None of the above					
72.	Whi	ch test is normally used	for time critical pro	jects?			
	(A)	Regression testing	. (B)	Smoke testing			
	(C)	Stress testing	(D)	All of the above			
	(E)	None of the above					
73.		Preferences expressed by utilities are combined with probabilities in the general theory of rational decisions is called					
	(A)	Probability theory	(B)	Graph theory			
	(C)	Decision theory	(D)	Utility theory			
	(E)	None of the above					

74.	UDI	2 transmits		
	(A)	Packets	(B)	Segments
	(C)	Buffers	(D)	All of the above
	(E)	None of the above		
75.	RTC	P is the acronym for		
	(A)	Realtime Transport Control Protocol		
	(B)	Realtime Transmission Control Proto	col	
	(C)	Realtime Transmission Controlled Pr	otocol	
	(D)	Random Transport Control Protocol		
	(E)	None of the above		
76.	Port	numbers below 1024 are called		
	(A)	Well known ports	(B)	Known ports
	(C)	Predefined ports	(D)	All of the above
	(E)	None of the above		
77.	DNS	S is the acronym for		
	(A)	Domain Name Socket	(B)	Domain Name Server
	(C)	Domain Name Space	(D)	Domain Name System
	(E)	None of the above		
78.	COO	COMO II does not consist of		
	(A)	Application Composition	(B)	Early Design
	(C)	Post-Architecture model	(D)	All of the above
	(E)	None of the above		
79.	Fine	d the odd man		
	(A)	FTP	(B)	HTTP
	(C)	Telnet	(D)	POP
	(E)	None of the above		

80.	PHF	stands for		
	(A)	Preformed Hypertext Processing	(B)	Predefined Hypertext Processing
	(C)	Processing High-end Preferences	(D)	Hypertext Pre-processor
	(E)	None of the above		
81.	Nan	nespace in an XML document is defin	ed by	
	(A)	www	(B)	URI
	(C)	WáC	(D)	All of the above
	(E)	None of the above		
82.		lus sign (+) after the element name in otes the element can have	the D'	TD declaration for an XML document
	(A)	Zero or one child	(B)	One or more children
	(C)	Zero or more children	(D)	All of the above
	(E)	None of the above		
83.	The	use of DTD and SCHEMA is/ are to	validat	e the
	(A)	XML document	(B)	HTML document
	(C)	PDF document	(D)	Both (A) & (B)
	(E)	None of the above		
84.	The	general strategy of delaying a choice	during	search is called a
	(A)	Probability theory	(B)	Utility theory
	(C)	Least commitment	(D)	Dempster-Shafer theory
	(E)	None of the above		
85.	RLC	c instruction is equivalent to		
	(A)	STC	(B)	DAD H
	(C)	CMC	(D)	All of the above
	(E)	None of the above		
86.	App	roaches that project managers can fo	llow in	order to manage a risk is
	(A)	Proactive	(B)	Preventive
	(C)	Corrective	(D)	All the above
	(E)	None of the above		

87.	The	reduced form of the Boolean expres	sion (A	+ B) (A + C) is			
	(A)	AB + AC	(B)	AC + B			
	(C)	A + BC	(D)	All of the above			
	(E)	None of the above					
88.	The	m bit parallel adder consists of					
	(A)	m+1 full adders	(B)	m-1 full adders			
	(C)	m full adders	(D)	2m full adders			
	(E)	None of the above					
89.	A flo	A flow graph G is reducible if and only if					
	(A)	(A) We can partition the edges into 2 disjoint groups					
	(B)	B) We can partition the edges into 2 joint groups					
	(C)	C) We can not partition the edges into 2 disjoint groups					
	(D)	O) All of the above					
	(E)	None of the above					
90.	A variable X is called an induction variable of a loop L if every time the variable X changes values,						
	(A)	It is increased or decreased by sam	e consta	int			
	(B)	It is only increased but not decreas	sed by sa	me constant			
	(C)	(C) It is not increased but decreased by same constant					
	(D)	All of the above					
	(E)	None of the above					
91.	Dep	endency Graph is defined as					
	(A)	(A) The interdependencies among the inherited and synthesized attributes at the nodes in a parse tree can be depicted by a directed graph					
	(B)	The interdependencies among the all kind of attributes at different nodes in a parse tree can be depicted by a directed graph					
	(C)	The interdependencies among the inherited and synthesized attributes at the nodes in a parse tree can be depicted by a undirected graph					
	(D)) All of the above					
	(E)	(E) None of the above					

(A) Two phase commit (C) One phase commit (D) All of the above 93. ————————————————————————————————————	92.		technology has been used or rollback activities for transaction		natically control and monitor commit
(E) None of the above 93. ————————————————————————————————————					
93. ————————————————————————————————————		(C)	One phase commit	(D)	All of the above
portability and flexibility of an application by allowing the application to be distributed over multiple heterogeneous platform. (A) Java (B) RMI (C) RPC (D) OOD (E) None of the above 94. Which of the following statement is false? (A) Every BCNF decomposition is lossless (B) Every BCNF is in 3NF (C) Every BCNF is dependency preserving (D) All of the above (E) None of the above		(E)	None of the above		
(C) RPC (E) None of the above 94. Which of the following statement is false? (A) Every BCNF decomposition is lossless (B) Every BCNF is in 3NF (C) Every BCNF is dependency preserving (D) All of the above (E) None of the above	93.	7.000	ability and flexibility of an appl	lication	by allowing the application to be
(E) None of the above 94. Which of the following statement is false? (A) Every BCNF decomposition is lossless (B) Every BCNF is in 3NF (C) Every BCNF is dependency preserving (D) All of the above (E) None of the above		·(A)	Java	(B)	RMI
94. Which of the following statement is false? (A) Every BCNF decomposition is lossless (B) Every BCNF is in 3NF (C) Every BCNF is dependency preserving (D) All of the above (E) None of the above		(C)	RPC	(D)	OOD
 (A) Every BCNF decomposition is lossless (B) Every BCNF is in 3NF (C) Every BCNF is dependency preserving (D) All of the above (E) None of the above 		(E)	None of the above		
 (B) Every BCNF is in 3NF (C) Every BCNF is dependency preserving (D) All of the above (E) None of the above 	94.	Whi	ch of the following statement is false	e?	
(C) Every BCNF is dependency preserving(D) All of the above(E) None of the above		(A)	Every BCNF decomposition is loss	less	
(D) All of the above (E) None of the above		(B)	Every BCNF is in 3NF		
(E) None of the above		(C)	Every BCNF is dependency preser	ving	
		(D)	All of the above		
of allows the remote component to be accessed without knowledge of the		(E)	None of the above		
95. — allows the remote component to be accessed without knowledge of the	95.		allows the remote compor	nent to b	e accessed without knowledge of the
network address.		netv	work address.		
(A) Java (B) RMI		(A)	Java	(B)	RMI
(C) RPC (D) OOD		(C)	RPC	(D)	OOD
(E) None of the above		(E)	None of the above		
96. ———— is a software that resides in both portions of client/server architecture and typically supports asynchronous calls between client and server applications.	96.				
(A) Object request broker					
		0070007			
(D) All of the above (E) None of the above					

97.	Whi	ch of the following is /are mobile Opera	ating 8	System(s)?			
	(A)	Symbian	(B)	Solr			
	(C)	MobOs	(D)	All of the above			
	(E)	None of the above		•			
98.	Which one of the following is true for a CPU having a single interrupt request line and a single interrupt grant line?						
	(A)	Neither vectored interrupt nor multi	ple in	terrupting devices are possible			
	(B)	Vectored interrupts are not possible	le but	multiple interrupting devices are			
	(C)	Vectored interrupts and multiple int	errupt	ting devices are both possible			
	(D)	D) Vectored interrupt is possible but multiple interrupting devices are not possible					
	(E)	E) None of the above					
99.	In w	which way(s) a macro processor for asse	embly	language can be implemented			
	(A)	Independent two-pass processor					
	(B)	B) Independent one-pass processor					
	(C)	(C) Processor incorporated into pass 1 of a standard two-pass assembler					
	(D)	D) All of the above					
	(E)	None of the above					
100.	The	advantage of a command processor re	unning	g only built-in command is			
	(A)	A) Flexibility to the users in running lists of commands by simply collecting them in named batch command files					
	(B)	B) The command set being common across different hardware configurations					
	(C)	C) Users can create system programs and run them as commands					
	(D)	The processing is much faster than defined commands are used.	n wou	ld otherwise be the case when user			
	(E)	None of the above					